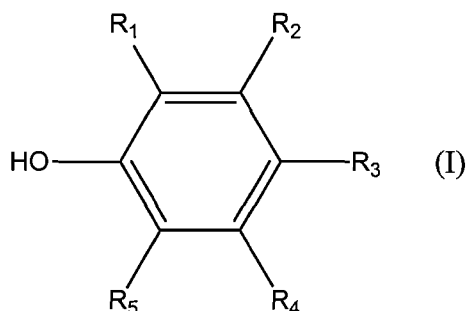


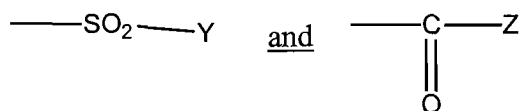
AMENDMENTS TO THE CLAIMS

This listing of claims replaces all previous claims, and listings of claims, in the application.

1. (Currently Amended) A molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds prepared by the method of reacting a phenol derivative represented by Formula (I)



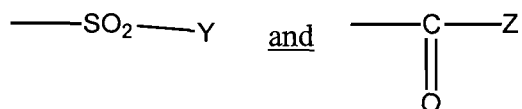
wherein R₁ and R₅ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons or



wherein Y is selected from the group consisting of alkyl having 1 to 8 carbons, alkenyl having 2 to 8 carbons, alkoxy having 1 to 6 carbons, substituted amino, substituted cycloalkyl, substituted phenyl or substituted aralkyl

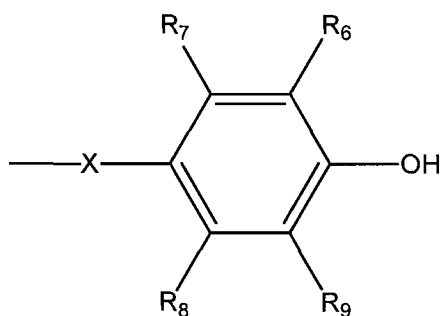
Z is selected from the group consisting of alkyl having 1 to 8 carbons, alkenyl having 2 to 8 carbons, alkoxy having 1 to 6 carbons, hydroxyl, substituted amino, substituted cycloalkyl, substituted phenyl or substituted aralkyl;

R₂ and R₄ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, or hydroxyl, or

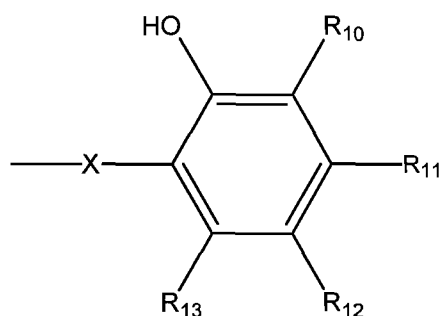


wherein Y and Z are as defined above, when R₁, R₃ or R₅ is alkoxy having 1 to 4 carbons or hydroxyl;

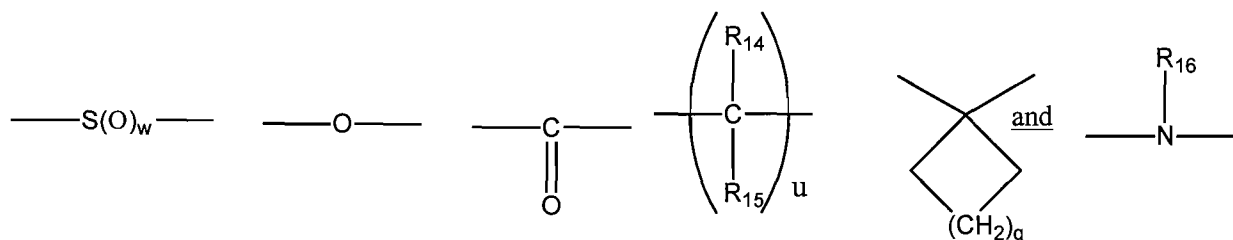
R₃ is selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, Formula (II) or Formula (III)



(II)

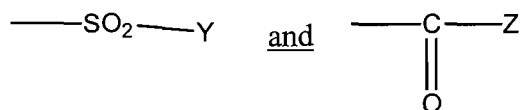


wherein X is selected from the group consisting of



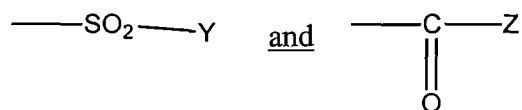
wherein w is 0, 1 or 2; u is 0 or 1; q is 0 to 4; R₁₄ and R₁₅ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, optionally substituted phenyl or optionally substituted aralkyl; R₁₆ is selected from the group consisting of hydrogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, substituted phenyl or substituted aralkyl;

R₆, R₉ and R₁₀ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, or

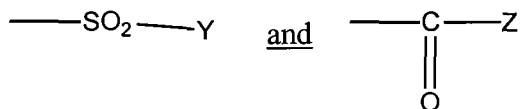


wherein Y and Z are as defined above;

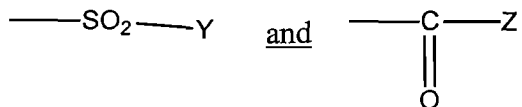
R₇, R₈, R₁₁, and R₁₃ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons or hydroxyl, but R₁₁ is selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl or



wherein Y and Z are as defined above when R₁₂ is alkoxy having 1 to 4 carbons or hydroxyl; R₁₂ is selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl or selected from the group consisting of

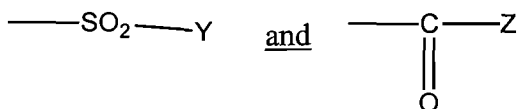


wherein Y and Z are as defined above, or selected from the group consisting of

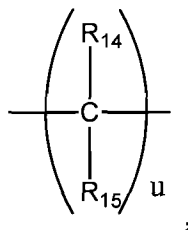


wherein Y and Z are as defined above, provided that

when R₃ is of Formula (II), one of R₁, R₅, R₆, and R₉ is selected from the group consisting of

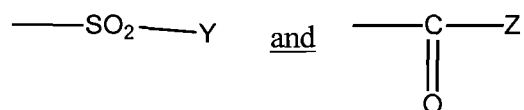


wherein Y and Z are as defined above, in which, when X is

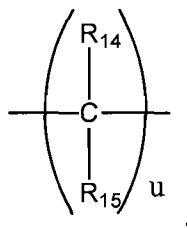


at least one of R₁, R₂, R₄, R₅, R₆, R₇, R₈, and R₉ is —SO₂—Y, and

when R₃ is of Formula (III), at least one of R₁, R₅, and R₁₀ is selected from the group consisting of



in which, when X is

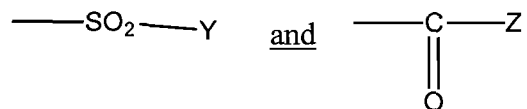


at least one of R₁, R₂, R₄, R₅, R₁₀, R₁₁, R₁₂, and R₁₃ is —SO₂—Y ,

wherein Y and Z are as defined above, and

when R₃ is selected from a group other than the group consisting of Formula (II) or (III), either of

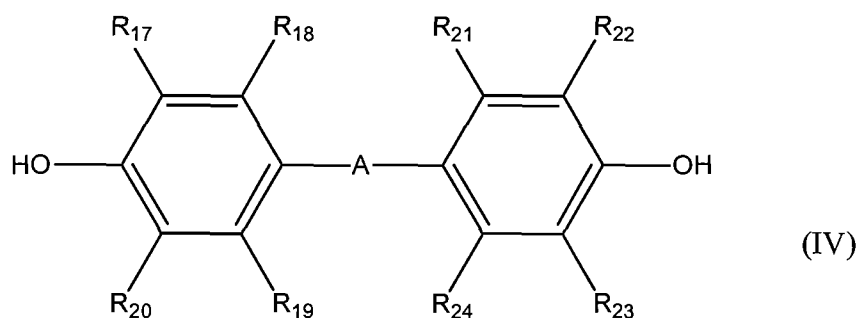
R₁ or R₅ is selected from the group consisting of



wherein Y and Z are as defined above, and

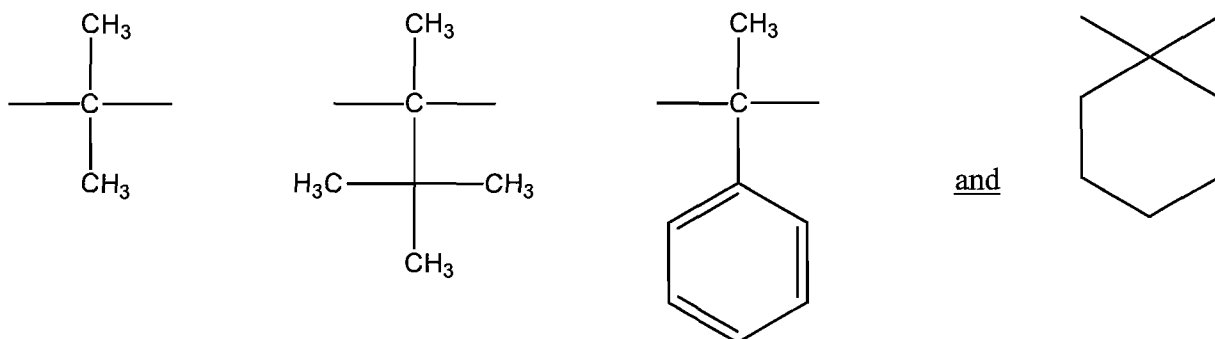
the phenol derivative is reacted with an organic compound under conditions sufficient to ~~from~~ form the molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds having the phenol derivative as a constituent, the constituent being a host.

2. (Currently Amended) A molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds prepared by the method of reacting a phenol derivative represented by Formula (IV)



wherein A is selected from the group consisting of

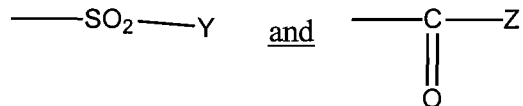




wherein w is 0, 1 or 2 and u is 0 or 1;

R_{18} , R_{19} , R_{21} and R_{24} are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons;

R_{17} is selected from the group consisting of



wherein Y and Z are selected from the group consisting of

alkyl having 1 to 6 carbons,

alkenyl having 2 to 6 carbons,

cyclohexyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

cyclopentyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

phenyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or halogen,

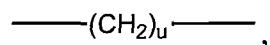
benzyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

phenethyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

α-methylbenzyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, or

naphthyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, and

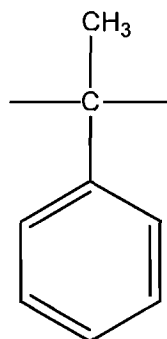
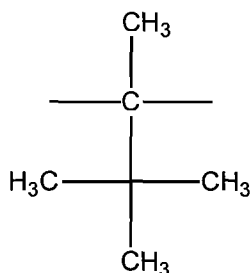
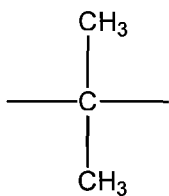
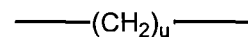
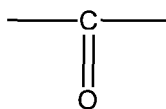
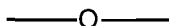
R₂₀, R₂₂, and R₂₃ are same or different hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons or the same groups as those for R₁₇, when A is



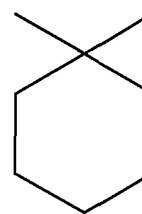
at least one of R₁₇, R₂₀, R₂₂, and R₂₃ is $\text{---SO}_2\text{---Y}$ wherein Y is as defined above, and

an organic compound, as the other reactant under conditions sufficient to ~~from~~ form the molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds having the phenol derivative as a constituent, the constituent being a host.

(V)

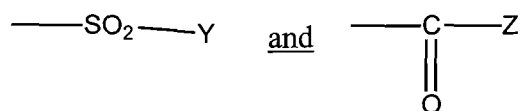
$$\text{---S(O)}_w\text{---}$$


and



R₂₆, R₂₇, R₃₀ and R₃₂ are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons;

R_{25} , R_{28} , R_{29} , and R_{31} are same or different selected from the group consisting of hydrogen, halogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons or



wherein Y and Z are selected from the group consisting of

alkyl having 1 to 6 carbons,

alkenyl having 2 to 6 carbons,

cyclohexyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

cyclopentyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

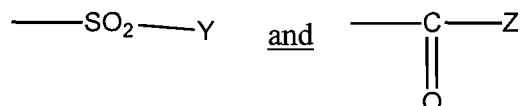
phenyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or halogen,

benzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

phenethyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

α -methylbenzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, or

naphthyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, and at least one of R₂₅, R₂₈ and R₂₉ is selected from the group consisting of



wherein Y and Z are selected from the group consisting of

alkyl having 1 to 6 carbons,

alkenyl having 2 to 6 carbons,

cyclohexyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

cyclopentyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

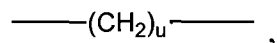
phenyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or halogen,

benzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

phenethyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

α-methylbenzyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, or

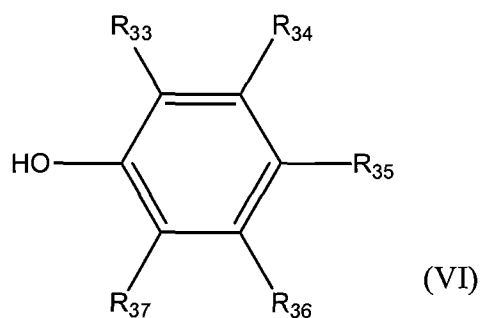
naphthyl which may have alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,
 when B is




at least one of R_{25} , R_{28} , R_{29} , and R_{31} is $\text{---SO}_2\text{---Y}$ wherein Y is as defined above, and

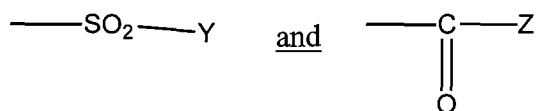
an organic compound as the second reactant under conditions sufficient to ~~from~~ form the molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds having the phenol derivative as a constituent, the constituent being a host.

4. (Currently Amended) A molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds prepared by the method of reacting a phenol derivative represented by Formula (VI)



wherein R_{33} is selected from the group consisting of

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wherein Y and Z are selected from the group consisting of

alkyl having 1 to 6 carbons,

alkenyl having 2 to 6 carbons,

cyclohexyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

cyclopentyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

phenyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or halogen,

benzyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

phenethyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen,

α -methylbenzyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, or

naphthyl optionally substituted with alkyl having 1 to 4 carbons or alkenyl having 2 to 4 carbons or alkoxy having 1 to 4 carbons or hydroxyl or halogen, and

R_{34} , R_{35} , R_{36} and R_{37} are same or different selected from the group consisting of hydrogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, halogen or the same groups as those for R_{33} ,

when R_{36} is $\text{—}\overset{\text{O}}{\parallel}\text{C—Z}$, R_{33} is $\text{—SO}_2\text{—Y}$; and

when R_{34} is $\text{—}\overset{\text{O}}{\parallel}\text{C—Z}$, R_{37} is hydrogen, alkyl having 1 to 4 carbons, alkenyl having 2 to 4 carbons, alkoxy having 1 to 4 carbons, hydroxyl, halogen or $\text{—SO}_2\text{—Y}$

with an organic compound as the second reactant under conditions sufficient to form the molecular compound selected from the group consisting of hydrates, solvates, adducts, and clathrate compounds having the phenol derivative as a constituent, the constituent being a host.

5-11. (Cancelled)

12. (Currently Amended) A molecular compound according to Claim 1, in which the molecular compound contains, as constituents:

a phenol derivative selected from the group consisting of Formula (I), (IV), (V),
and (VI); and

a material that reacts with the phenol derivative to form a molecular compound
selected from the group consisting of antibacterial agents, antifungal agents, insecticides, noxious
insect repellants, perfumes, deodorants, antifouling agents, curing agents for coating materials,
accelerators for coating materials, resins, adhesives, natural essential oils, antioxidants,
vulcanization accelerators and organic solvents.

13. (Currently Amended) A molecular compound according to Claim 2, in which the
molecular compound contains, as constituents:

a phenol derivative selected from the group consisting of Formula (I), (IV), (V),
and (VI); and

a material that reacts with the phenol derivative to form a molecular compound
selected from the group consisting of antibacterial agents, antifungal agents, insecticides, noxious
insect repellants, perfumes, deodorants, antifouling agents, curing agents for coating materials,
accelerators for coating materials, resins, adhesives, natural essential oils, antioxidants,
vulcanization accelerators and organic solvents.

14. (Currently Amended) A molecular compound according to Claim 3, in which the molecular compound contains, as constituents:

a phenol derivative selected from the group consisting of Formula (I), (IV), (V), and (VI); and

a material that reacts with the phenol derivative to form a molecular compound selected from the group consisting of antibacterial agents, antifungal agents, insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents for coating materials, accelerators for coating materials, resins, adhesives, natural essential oils, antioxidants, vulcanization accelerators and organic solvents.

15. (Currently Amended) A molecular compound according to Claim 4, in which the molecular compound contains, as constituents:

a phenol derivative selected from the group consisting of Formula (I), (IV), (V), and (VI); and

a material that reacts with the phenol derivative to form a molecular compound selected from the group consisting of antibacterial agents, antifungal agents, insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents for coating materials, accelerators for coating materials, resins, adhesives, natural essential oils, antioxidants, vulcanization accelerators and organic solvents.

16. (Currently Amended) A molecular compound according to Claim 1, in which the molecular compound contains, as constituents:

a phenol derivative selected from the group consisting of Formula (I); and

a material that reacts with the phenol derivative to form a molecular compound selected from the group consisting of antibacterial agents, antifungal agents, insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents for coating materials, accelerators for coating materials, resins, adhesives, natural essential oils, antioxidants, vulcanization accelerators and organic solvents.

17. (Currently Amended) A molecular compound according to Claim 2, in which the molecular compound contains, as constituents:

a phenol derivative selected from the group consisting of Formula (IV); and

a material that reacts with the phenol derivative to form a molecular compound selected from the group consisting of antibacterial agents, antifungal agents, insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents for coating materials, accelerators for coating materials, resins, adhesives, natural essential oils, antioxidants, vulcanization accelerators and organic solvents.

18. (Currently Amended) A molecular compound according to Claim 3, in which the molecular compound contains, as constituents:

a phenol derivative selected from the group consisting of Formula (V); and

a material that reacts with the phenol derivative to form a molecular compound selected from the group consisting of antibacterial agents, antifungal agents, insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents for coating materials, accelerators for coating materials, resins, adhesives, natural essential oils, antioxidants, vulcanization accelerators and organic solvents.

19. (Currently Amended) A molecular compound according to Claim 4, in which the molecular compound contains, as constituents:

a phenol derivative selected from the group consisting of Formula (VI); and

a material that reacts with the phenol derivative to form a molecular compound selected from the group consisting of antibacterial agents, antifungal agents, insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents for coating materials, accelerators for coating materials, resins, adhesives, natural essential oils, antioxidants, vulcanization accelerators and organic solvents.

20-27. (Cancelled)

28. (Currently Amended) The molecular compound prepared according to the method of ~~elaim~~ Claim 1, wherein the organic compound is selected from the group comprising:

antibacterial agents, antifungal agents, insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents and accelerators for coating materials, resins and adhesives, natural essential oils, antioxidants, vulcanization accelerators or organic solvents, that react with the said phenol derivative to form the molecular compound.

29. (Currently Amended) The molecular compound prepared according to the method of ~~elaim~~ Claim 2, wherein the organic compound is selected from the group comprising:

antibacterial agents, antifungal agents, insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents and accelerators for coating materials, resins and adhesives, natural essential oils, antioxidants, vulcanization accelerators or organic solvents, that react with the said phenol derivative to form the molecular compound.

30. (Currently Amended) The molecular compound prepared according to the method of ~~elaim~~ Claim 3, wherein the organic compound is selected from the group comprising:

antibacterial agents, antifungal agents, insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents and accelerators for coating materials, resins and

adhesives, natural essential oils, antioxidants, vulcanization accelerators or organic solvents, that react with the said phenol derivative to form the molecular compound.

31. (Currently Amended) The molecular compound prepared according to the method of ~~claim~~ Claim 4, wherein the organic compound is selected from the group comprising:

antibacterial agents, antifungal agents, insecticides, noxious insect repellants, perfumes, deodorants, antifouling agents, curing agents and accelerators for coating materials, resins and adhesives, natural essential oils, antioxidants, vulcanization accelerators or organic solvents, that react with the said phenol derivative to form the molecular compound.